

## Missouri

Science and Engineering Profile							
Characteristic	State	U.S.	Rank	Characteristic	State	U.S.	Rank
Doctoral scientists, 1999 <sup>1</sup> .....	9,050	518,670	20	Total R&D performance, 1998 (millions).....	\$1,868	\$214,668	28
Doctoral engineers, 1999 <sup>1</sup> .....	1,380	107,100	22	Industry R&D, 1998 (millions).....	\$1,313	\$163,480	26
S&E doctorates awarded, 1999 <sup>1</sup> .....	389	25,953	21	Academic R&D, 1998 (millions).....	\$478	\$25,342	18
of which, in life sciences.....	35%	25%		of which, in life sciences.....	78%	57%	
in engineering.....	17%	21%		in engineering.....	9%	16%	
in social sciences.....	16%	16%		in physical sciences.....	4%	9%	
S&E postdoctorates, 1998 <sup>1</sup>				Public higher education current-fund			
in doctorate-granting institutions.....	893	39,494	13	expenditures, 1997 (millions).....	\$2,117	\$125,236	21
S&E graduate students, 1998 <sup>1</sup>				Number of SBIR awards, 1990-98.....	150	35,413	28
in doctorate-granting institutions.....	6,651	422,834	21	Patents issued to state residents, 1999.....	931	83,901	24
Population, 1999 (thousands).....	5,468	276,580	17	Gross state product, 1998 (billions).....	\$163	\$8,800	17
Civilian labor force, 1999 (thousands).....	2,847	140,536	17	of which, agriculture.....	1%	1%	
Personal income per capita, 1999.....	\$26,376	\$28,542	30	manufacturing, mining, construction.....	25%	22%	
Federal spending				transportation, communication, utilities.....	11%	9%	
Total expenditures, 1999 (millions).....	\$33,231	\$1,508,933	15	wholesale and retail trade.....	17%	16%	
R&D obligations, 1998 (millions).....	\$931	\$70,445	19	finance, insurance, real estate.....	15%	19%	
				services.....	20%	21%	
				government.....	11%	12%	

NOTE: Rankings and totals are based on data for the 50 States, District of Columbia, and Puerto Rico. Reliability of the estimates of industry R&D and of doctoral scientists and engineers varies by State, because the sample allocation was not based on geography. The rankings do not take into account the margin of error of estimates from sample surveys.

<sup>1</sup>Data on graduate students, doctoral scientists and engineers, and postdoctorates include all graduate degree (except M.D.) candidates and recipients in S&E fields, including health fields. Data on S&E doctorates awarded do not include health fields.

Federal Obligations for Research and Development by Agency and Performer: Fiscal Year 1998								
Agency	Performer							
	Total	Federal Intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank, total
	[In thousands of dollars]							
Total, all agencies.....	930,735	48,544	0	560,924	294,459	22,202	4,606	19
Department of Agriculture.....	20,374	9,681	0	0	10,693	0	0	27
Department of Commerce.....	1,012	343	0	0	85	415	169	40
Department of Defense.....	581,523	24,658	0	547,329	9,536	0	0	16
Department of Energy.....	4,727	21	0	340	4,356	10	0	35
Dept. of Health & Human Services.....	264,584	634	0	1,777	239,788	20,606	1,779	13
Department of the Interior.....	13,171	12,484	0	11	562	0	114	10
Department of Transportation.....	2,779	6	0	150	0	79	2,544	29
Environmental Protection Agency.....	2,816	0	0	250	2,506	60	0	27
National Aeronautics and Space Admin.....	16,251	717	0	10,667	4,864	3	0	28
National Science Foundation.....	23,498	0	0	400	22,069	1,029	0	26
State rank, total.....	19	29	na	15	13	20	23	na

NOTE: Federal R&D obligations are as reported by funding agencies. Ranks and totals are based on data for the 50 States, District of Columbia, and Puerto Rico.

KEY: FFRDC = federally funded research and development center; SBIR = small business innovation research; na = not applicable.

SOURCES: Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources -- see the section, "Data Sources for Science and Engineering (S&E) State Profiles".